

Fig. 1

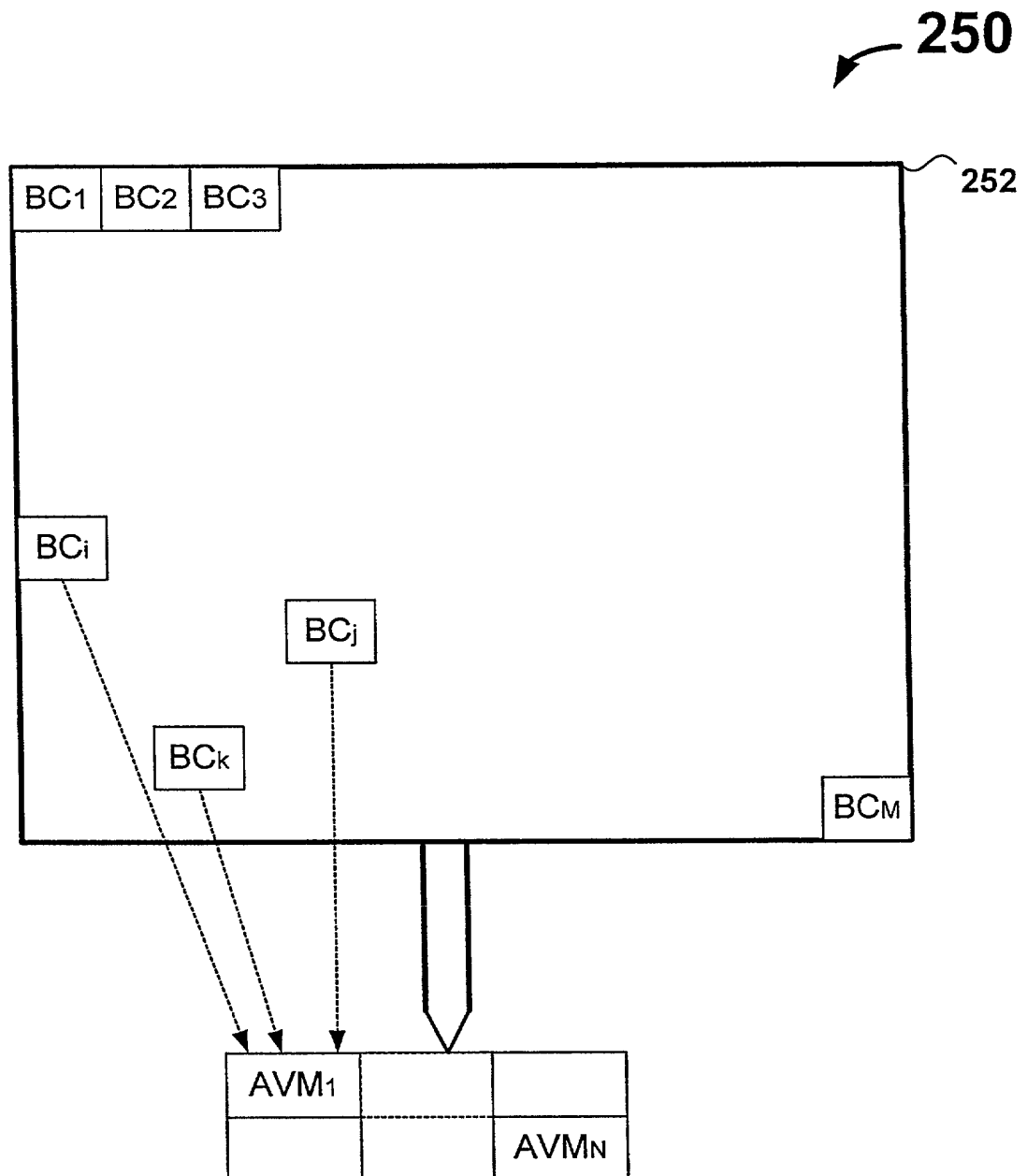


Fig. 2B

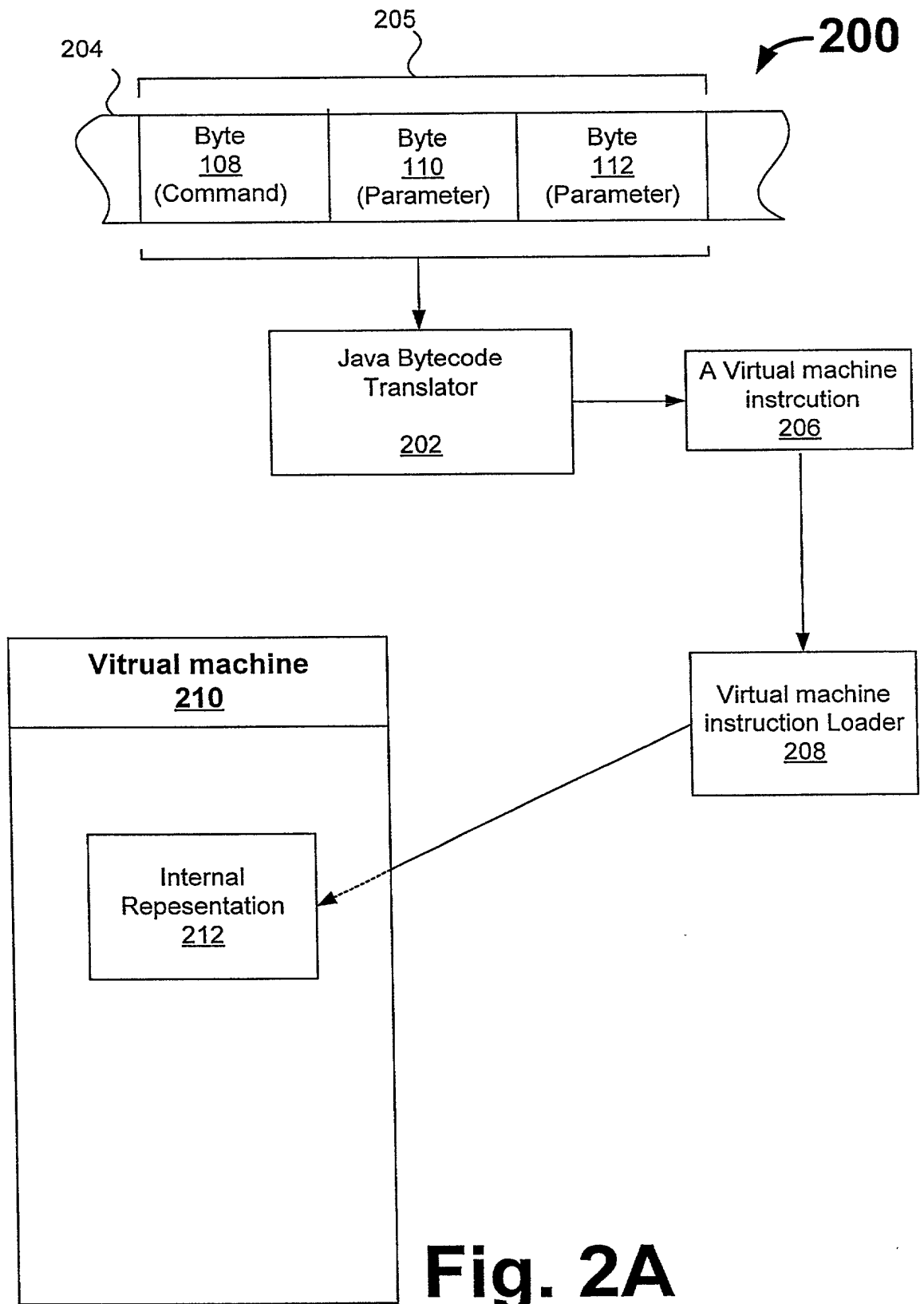


Fig. 2A

The diagram illustrates a virtual machine architecture. At the top, a large box labeled **300** represents the host. Below the host, there are two vertical columns representing virtual machines. The left column is labeled **302** at the bottom and contains three stacked boxes: "Virtual Machine command A" with 306 below it, "Virtual Machine command B" with 308 below it, and "Virtual Machine command C" with 310 below it. The right column is labeled **304** at the bottom and contains three stacked boxes: "Data B" with 312 below it, "Data C1" with 314 below it, and "Data C2" with 316 below it. An arrow points from the host label **300** to the top of the left column.

Fig. 3

Fig. 4A

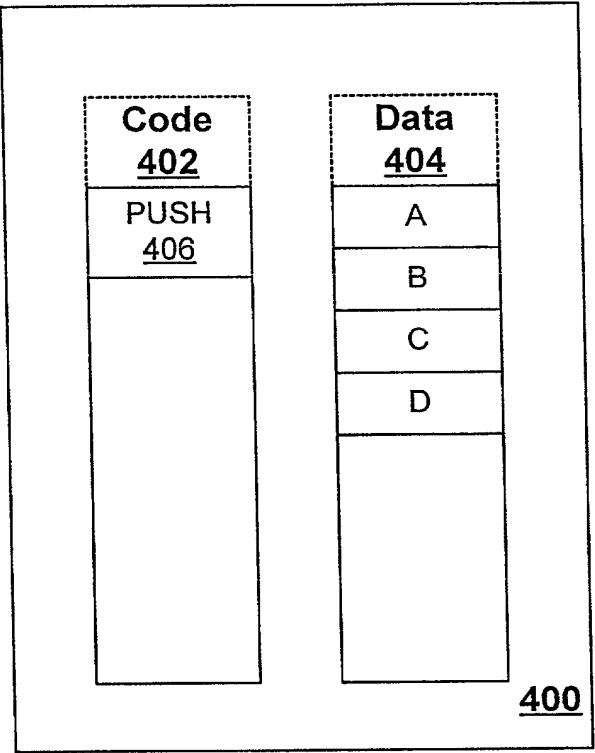


Fig. 4A

400

PUSH
fconst_0
fconst_1
fconst_2
sipush
ldc
ldc_w

Fig. 4B

Fig. 4C

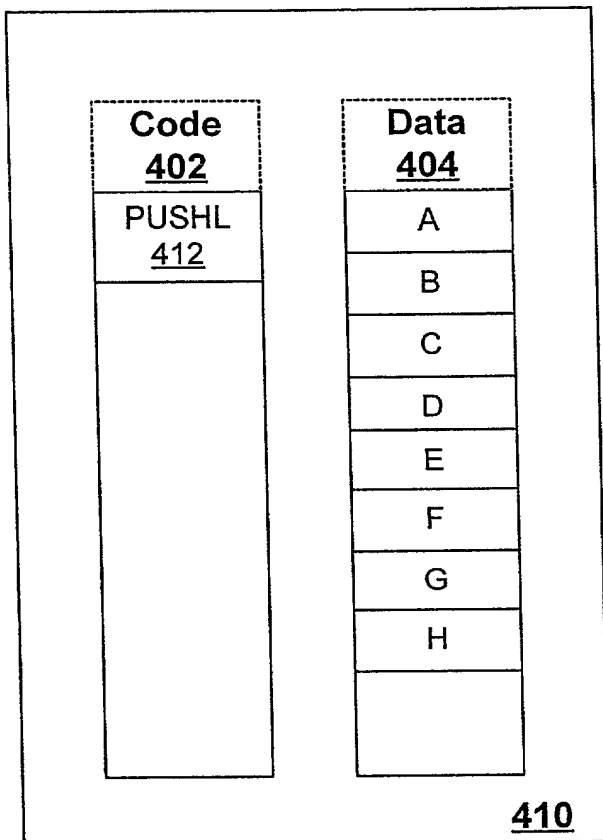


Fig. 4C

OP_PUSHL
lconst_0
lconst_1
dconst_0
dconst_1
ldc2_w

Fig. 4D

Fig. 4E

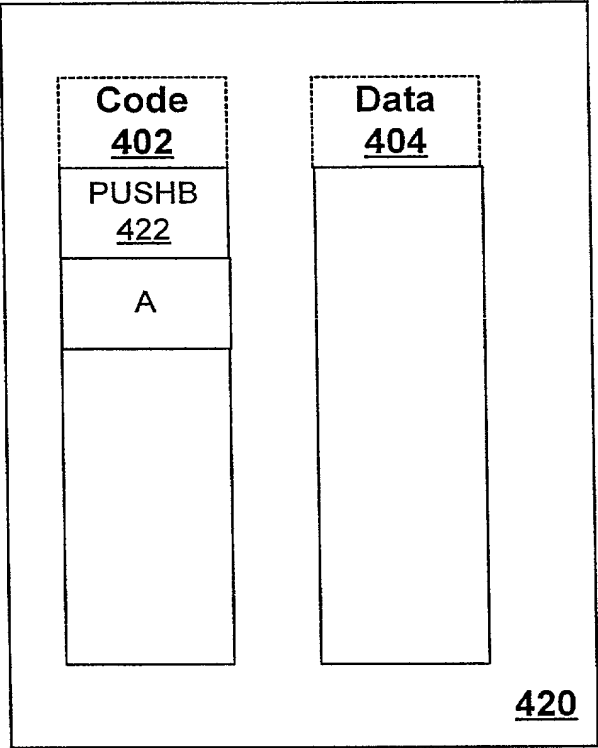
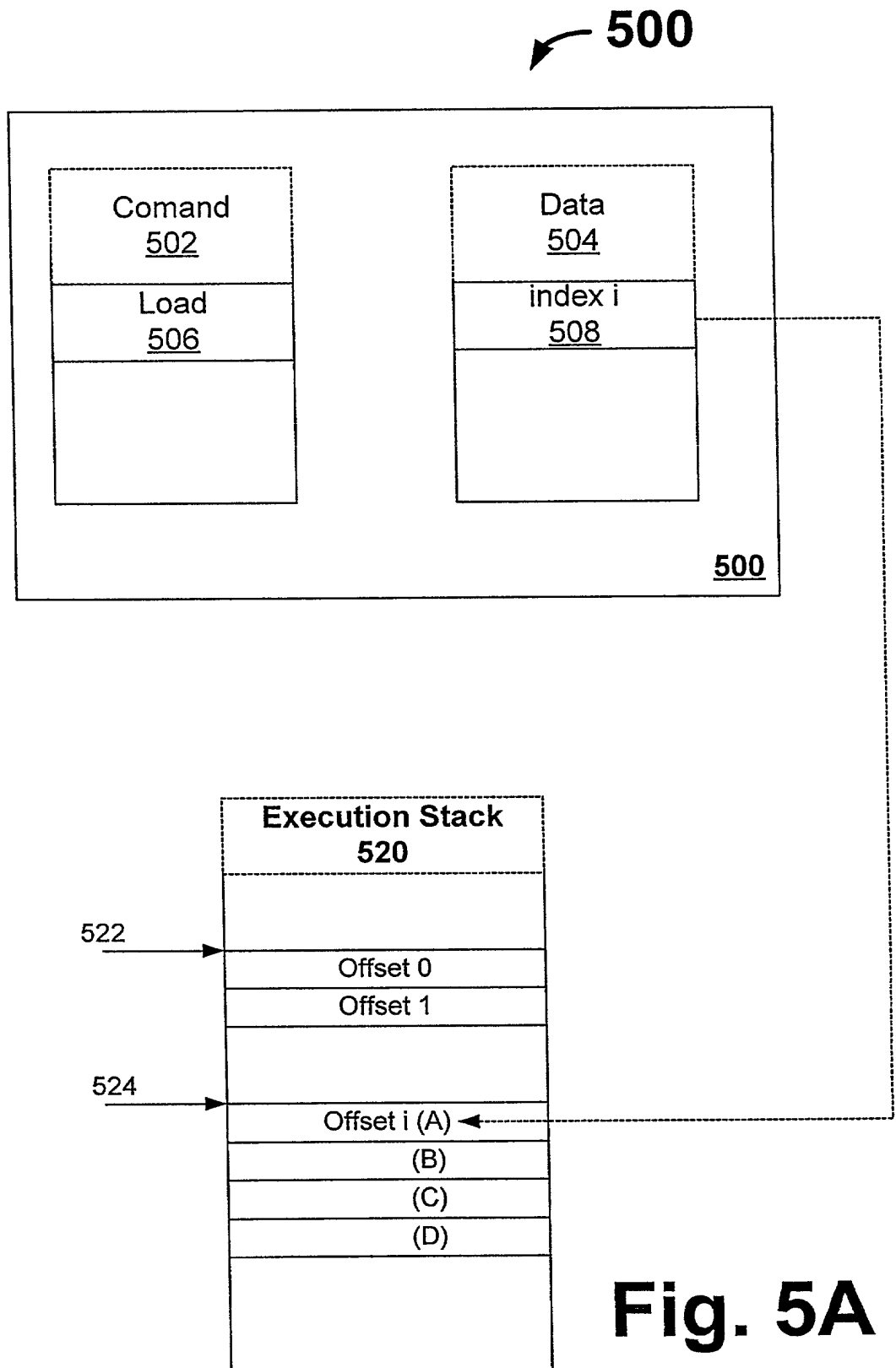


Fig. 4E

PUSHB
aconst_null
iconst_m1
iconst_0
iconst_1
iconst_2
iconst_3
iconst_4
iconst_5
bipush

Fig. 4F



LOAD

iload
fload
aload
iload_0
iload_1
iload_2
iload_3
fload_1
fload_2
fload_3
aload_0
aload_1
aload_2
aload_3

Fig. 5B

LOADL

lload
dload
lload_0
lload_1
lload_2
lload_3
fload_0
dload_0
dload_1
dload_2
dload_3

Fig. 5C

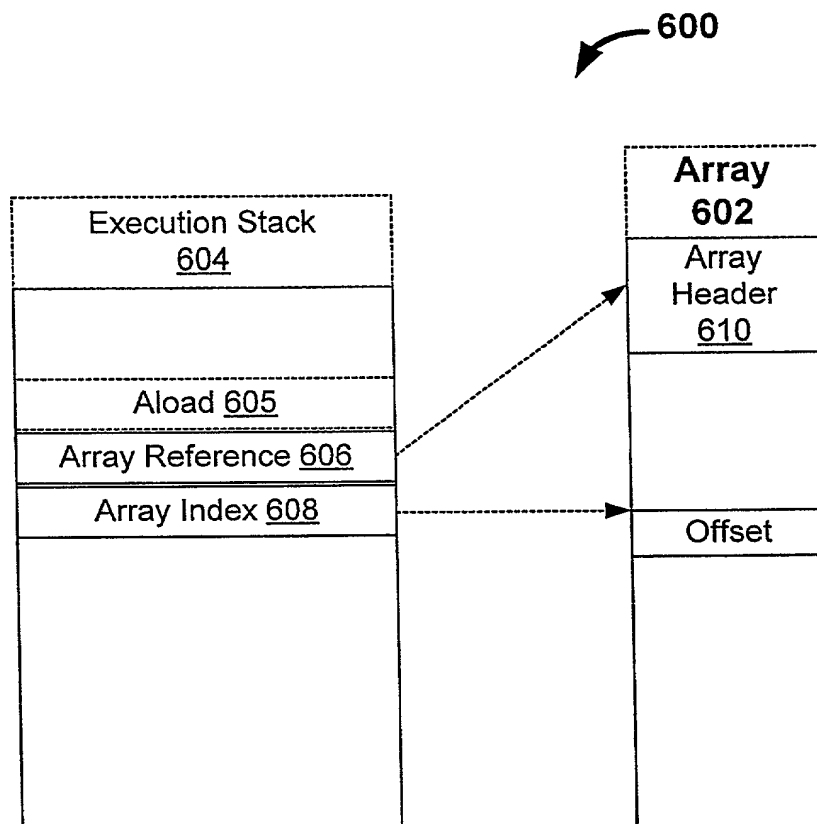


Fig. 6A

ALOAD
iaload
laload
faload
daload
aaload
baload
caload
saload

Fig. 6B

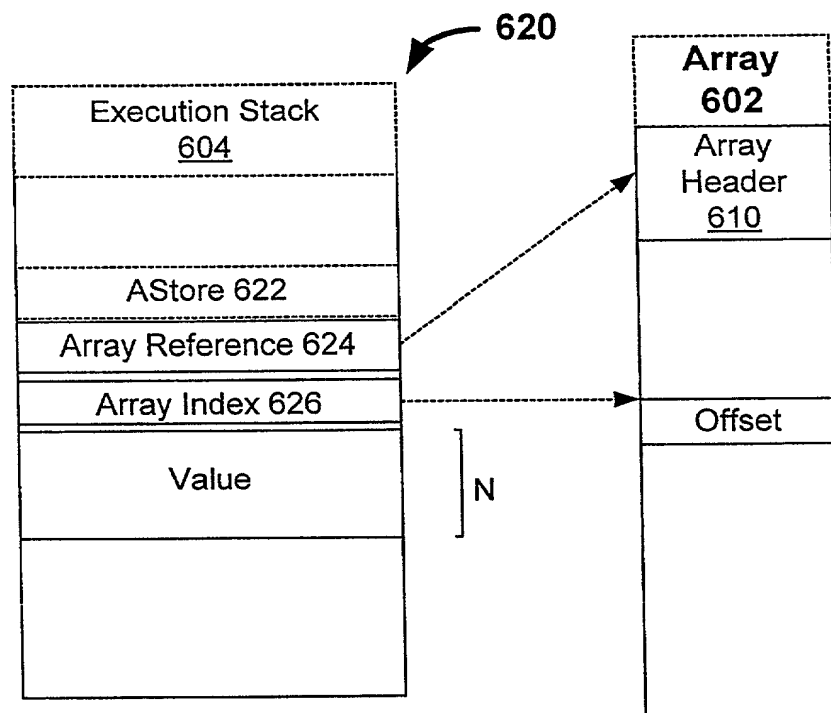


Fig. 6C

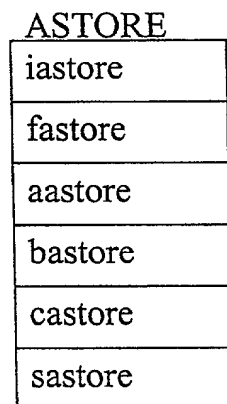


Fig. 6 D

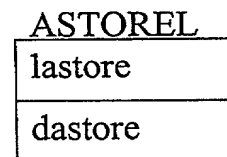


Fig. 6 E

lcmp	OP_LSUB, OP_JMPEQ
fcmpl	OP_FSUB, OP_JMPLE
fcmpg	OP_FSUB, OP_JMPGE
dcmpl	OP_DCMP, OP_JMPLE
dcmpg	OP_DCMP, OP_JMPGE

Fig. 6F

if_icmpeq	OP_ISUB, OP_JMPEQ
if_icmpne	OP_ISUB, OP_JMPNE
if_icmplt	OP_ISUB, OP_JMPLT
if_icmpge	OP_ISUB, OP_JMPGE
if_icmpgt	OP_ISUB, OP_JMPGT
if_icmple	OP_ISUB, OP_JMPLE
if_acmpeq	OP_ISUB, OP_JMPEQ
if_acmpne	OP_ISUB, OP_JMPNE

Fig. 6H

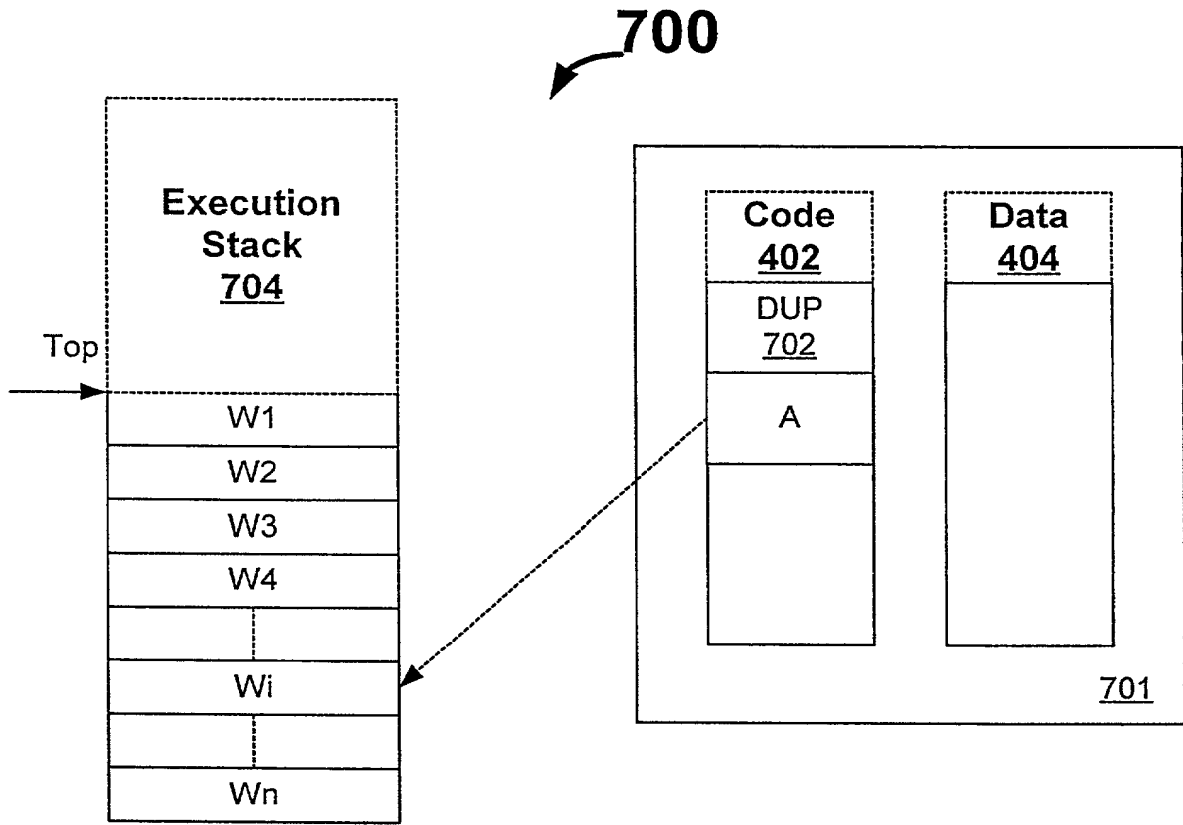


Fig. 7A

DUP
Dup
Dup_x1
Dup_x2

Fig. 7B

DUPL
Dup2
Dup2_x1
Dup2_x2

Fig. 7C

RETURN	
Ireturn	
Freturn	
Areturn	

LRETURN	
Lreturn	
Dreturn	

NEW	
New	
Newarray	
Anewarray	
Multianewarray	

Fig. 8A

Fig. 8B

Fig. 9